Ian Michael Gomez

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25 Harrington Street Bergenfield, NJ

Education

Stevens Institute of Technology *Sept. '17 - May '21*

B.S./M.S., Computer Science **GPA:** 3.92

Honors: Edward A. Stevens Scholorship, Dean's List,
Member of the International Computer Science Honor Society

Courses: Algorithms, Data Structures, Machine Learning (Coursera)

Experience

Full Stack Software Developer Intern - IBM *Jun '19 - Aug '19*

Ant, Gradle, Python, Java

- Add resilience features which reduce build pipeline failures by 4%
- Aid in open sourcing 20 packages of Open Liberty
- Add automation tools by writing Python/Gradle scripts to reduce developer conversion time by 17%

Course Assistant (Discrete Structures/Algorithms) - Stevens Institute of Technology *Jan '19 - Dec '19*

Scheme, C++

- Provide aid in grading over 200 students' assignments
- Hold office hours where I help students with both theoretical and programming problems
- Run lab sections where I teach problem solving methods and programming concepts

Programming Projects

DABNet (Personal Project) *Jun '19 - Present*

PyTorch, OpenCV, Python, NumPy

- Developing a computer vision and reinforcement learning pipeline to teach a computer how to play Dota Underlords
- Use **OpenCV** for image processing and **PyTorch** to build convolutional neural networks for image classification and object detection
- Utilize deep reinforcement learning algorithms to optimize a neural network using input parameters resulting from a computer vision pipeline

Cryptocurrency Predictor (Personal Project) *Feb '18 - Jun '18*

BeautifulSoup4, Tensorflow, Python

- Create a machine learning pipeline to predict cryptocurrency prices using on information on coinmarketcap
- Create a neural network which has a .002 mean square cross validation error on the Loki cryptocurrency

We Are The Last Words (Personal Project) *Feb '18 - Jun '18*

Django, Python, SQLite3, HTML, CSS, JavaScript, Bootstrap

- Develop the back end and front end of an active blogging web application that has an average monthly view count of 12,000

Programming Skills

Experienced With: Python, Linux, HTML, CSS, JavaScript **Familiar with** C++, Java, SQL

Machine Learning: NumPy, PyTorch, Tensorflow, Keras, SciKit-Learn

Full Stack Web Development: Flask, Django, Vue.js, Express

DevOps Technologies: Docker, Kubernetes, Gradle, Ant

Database Technologies: PostgreSQL, MongoDB, SQLite3

Awards

Won Best Usage of Twilio API at HackTCNJ 2018 - For the project Panic Button

STEM project 1st place in Rutgers Junior Science and Humanities Symposium - For the project building a construction robot